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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/750,263	12/31/2003	Makoto Motoyoshi	09792909-5780		
26263	7590 03/22/2005		EXAMINER		
SONNENS	CHEIN NATH & ROS	LE, THAO P			
P.O. BOX 061080 WACKER DRIVE STATION, SEARS TOWER CHICAGO, IL 60606-1080			ART UNIT	PAPER NUMBER	
			2818		
			DATE MAILED: 03/22/200	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

						H.I		
		Арр	lication No.		Applicant(s)			
Office Action Summary		10/	750,263		MOTOYOSHI, MAKOTO			
		Exa	miner		Art Unit			
			o P. Le		2818			
The M Period for Reply	AILING DATE of this commu	nication appears	on the cover shee	et with the co	rrespondence addi	ress		
THE MAILING - Extensions of tir after SIX (6) MO - If the period for - If NO period for - Failure to reply v Any reply receiv	ED STATUTORY PERIOD F B DATE OF THIS COMMUN ne may be available under the provisions NTHS from the mailing date of this comi- reply specified above is less than thirty (in reply is specified above, the maximum so within the set or extended period for reply led by the Office later than three months- rm adjustment. See 37 CFR 1.704(b).	ICATION. s of 37 CFR 1.136(a). It munication. 30) days, a reply within latutory period will apply will, by statute, cause	In no event, however, ma the statutory minimum o y and will expire SIX (6) the application to becom	ay a reply be time of thirty (30) days MONTHS from the ne ABANDONED	ly filed will be considered timely. le mailing date of this com (35 U.S.C. § 133).	imunication.		
Status								
1)⊠ Respor	nsive to communication(s) file	ed on 28 Februa	rv 2005.					
·	Responsive to communication(s) filed on <u>28 February 2005</u> .  This action is <b>FINAL</b> .  2b) This action is non-final.							
,	'—							
•	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of C	laims					•		
4a) Of the first transfer of the first tran	s) <u>1-4</u> is/are pending in the a ne above claim(s) <u>3 and 4</u> is s; is/are allowed. s) <u>1</u> is/are rejected. s) is/are objected to. s) are subject to restri	/are withdrawn f						
Application Pap	ers							
9)∐ The spe	cification is objected to by th	e Examiner.						
10)⊠ The drawing(s) filed on <u>12/31/03</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.								
Applicar	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	ment drawing sheet(s) including h or declaration is objected t							
Priority under 3	5 U.S.C. § 119							
-	ledgment is made of a claim	for foreign prior	ity under 35 U.S.	Ç. § 119(a)-	(d) or (f).			
a)⊠ All	b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority documents have been received.							
	Certified copies of the priority							
	Copies of the certified copies	•		een received	d in this National S	tage		
	application from the Internation in Internation in the Internation in the Internation in Internation in Internation in Internation in Internation in Internation in I	•		not roccived				
See the a	attached detailed Office activ	און וטו מ וואנ טו נווע	s certified copies	not received				
	-							
Attachment(s)			_					
2) Notice of Drafts	rences Cited (PTO-892) sperson's Patent Drawing Review ( sclosure Statement(s) (PTO-1449 o ail Date		Paper			152)		

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#### **DETAILED ACTION**

#### **Priority**

1. Acknowledge is made of applicants' claim for foreign priority base on an application P2003-000486 filed in <u>Japan</u> on <u>01/06/2003</u>.

It is noted that Applicants have filled a certified copy of said application as required by U.S.C 119, which papers have been placed of record in the file.

#### Election/Restriction

2. Examiner confirms that Applicants elected to prosecute Claim 1 on 02/28/05.

Because Applicant did not distinctly and specifically point out the election is either with or without traverse or the supposed error in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)). Applicants have the right to file a divisional, continuation or continuation-in-part application covering the subject matter of the non-elected claims.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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4. Claim 1 is rejected under 35 USC 102 (e) as being anticipated by Applicant Admitted Prior Art (AAPA), Fig. 40, Pages 1-8 of Specification.

Regarding claim 1, AAPA discloses a similar nonvolatile magnetic memory device as recited in claim 1 (See Fig. 40 and Pages 1-8), the memory device comprising:

- a) a transistor for election, formed in a semiconductor substrate;
- b) a first insulating interlayer 121 covering the transistor for selection;
- c) a first connecting hole 123 formed in a first opening portion formed through the first insulating interlayer, and connected to the transistor (via 114B) for selection;
- d) a first wiring RWL being formed on the first insulating interlayer and extending in a first direction;
- e) a second insulating interlayer 125 covering the first insulating interlayer and the first wiring;
- f) a tunnel magnetoresistance device 130 being formed on the second insulating interlayer and comprising a tunnel barrier 134 and two ferromagnetic layers (135 and 132+133), the tunnel barrier 134 being sandwiched between the two ferromagnetic layers;
- g) a third insulating interlayer 128 covering the tunnel magnetoresistance device and the second insulating interlayer;

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h) a second wiring BL formed on the third insulating interlayer, being electrically connected to one end of the tunnel magnetoresistance device and extending in a second direction different from the first direction (Fig. 40, page 7);

- i) a second connecting hole 126 formed in a second opening portion formed through the second insulating interlayer, and connected to the first connecting hole, in which an end face of an extending portion of the other end of the tunnel magnetoresistance device is in contact with the second connecting hole (See Fig. 40).
- 5. When responding to the office action, Applicants' are advice to provide the examiner with the line numbers and page numbers in the application and/or references cited to assist the examiner to locate the appropriate paragraphs.

A shortened statutory period for response to this action is set to expire 3 (three) months and 0 (zero) day from the day of this letter. Failure to respond within the period for response will cause the application to become abandoned (see M.P.E.P 710.02(b)).

### Conclusion

6. The references cited in PTO-892 should be considered pertinent to applicant's disclosure.

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thao P. Le whose telephone number is 571-272-1785. The examiner can normally be reached on M-T (7-6).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thao P. Le Examiner Art Unit 2818